

GRANULES

DESCRIPTION

PERLHUMUS® Granules is a high quality humic material soil conditioner (Leonardite) which acts as a natural chelator. It consists of immediately available nutrient humus and high quality permanent humus, which cannot be easily decomposed by soil microorganisms.

ORIGIN

German Leonardite (highly oxidized lignite) is a natural raw material containing a high content of humic matter (humic acid and fulvic acid). Leonardite is formed in specific sedimentation layers of oxidized soft brown coal which did not reach the stage of brown coal. It arises from the chemical and biological humification of plants and other organic matter, by biological activity and geological processes.



COMPOSITION: (Typical analysis)

Humic substances	Approx. 55-60%
Particle size	2-8 mm
Dry matter	65% +/- 3%
Salinity	0.22 ms/cm (milliSiemens/cm)
Total organic nitrogen	1.0%
P ₂ O ₅	0.2%
K ₂ O	0.3%
pH value	6-7
Product type	Granules

FORM OF DELIVERY: Bag, 20 or 25 kg.



Bag
20/25 kg



Organic Soil Conditioner



Granulated natural humic acids FOR SOIL AND SUBSTRATE APPLICATION

BENEFITS

The most outstanding benefits of **PERLHUMUS® Granules** as a soil conditioner are the demonstrable positive impacts on plant growth and health as well as on resistance to stress factors (dryness, salt and pesticides). These benefits result from the high cation exchange capacity of PERLHUMUS its pH-buffering capacity, and its high capacity to retain water.

PERLHUMUS® Granules stimulates the activity of beneficial soil organisms by its high carbon content. Due to its excellent properties, it can be applied on all types of soils and for all plants, to stimulate plant growth and increase yield. It can be mixed with all granular fertilizers.

- Improves the structure and aeration of the soil
- Increases the water retention capacity of the soil
- Improves the soil buffering capacity
- Reduces soil erosion
- Helps to neutralize toxins and sequesters heavy metals in the soil
- Reduces nutrient leaching
- Adjusts the soil pH value to a neutral range
- Reduces soil salinity
- Increases biomass production
- Promotes root respiration and development, especially vertically
- Improves nutrient uptake through the root system

DIRECTIONS FOR USE* PERLHUMUS® Granules

CROP	OBJECTIVE	RECOMMENDED APPLICATION
In all crops	Soil conditioning	400 kg/ha
Vegetables in greenhouses	Soil conditioning, root growth stimulation	Band application 10-20 kg/100 m ² during soil preparation
Horticultural fruit trees	Soil conditioning, root growth stimulation	0.5 kg - 2 kg/tree to hole during planting, or 10-15 kg/100 m ² with the first fertilizer to total tree shade area
Open field vegetables	Soil conditioning, root growth stimulation	10-15 kg/100 m ² during the soil preparation or as band application with the first soil fertilizer application
Cereals, potatoes, legumes	Soil conditioning, root growth stimulation	300-400 kg/ha during the soil preparation or as band application with the first soil fertilizer application
Ornamental plants and tree nursery	Soil conditioning, root growth stimulation	10-15 kg/m ³ during the preparation of substrates
Landscaping (in general)	Soil conditioning, root growth stimulation	5-10 kg/100 m ²
Turf grass	Soil conditioning, root growth stimulation	20-30 kg/100 m ² during the soil preparation for lawns or 10 kg/100 m ² every year

* This recommendation may be varied according to the soil characteristics and local conditions

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